
**Hydraulic fluid power — Single rod
cylinders, 16 MPa (160 bar) compact series
with bores from 250 mm to 500 mm —
Accessory mounting dimensions**

*Transmissions hydrauliques — Vérins à simple tige, série compacte
16 MPa (160 bar) d'alésages 250 mm à 500 mm — Dimensions
d'interchangeabilité des accessoires*



Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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Introduction

In hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure within an enclosed circuit.

One component of such systems is the fluid power cylinder. This is a device which converts power into linear mechanical force and motion. It consists of a movable element, i.e. a piston and piston rod, operating within a cylindrical bore.

Hydraulic fluid power – Single rod cylinders, 16 MPa (160 bar) compact series with bores from 250 mm to 500 mm – Accessory mounting dimensions

1 Scope

This International Standard specifies the mounting dimensions required for interchangeability of accessories for 16 MPa (160 bar¹⁾) compact cylinders conforming to ISO 6020-3. The accessories have been designed specifically for use with cylinders manufactured in accordance with ISO 6020-3, but this does not limit their application.

This International Standard covers the following accessories:

- plain rod clevis (see figure 1 and table 1);
- plain rod eyes (see figure 2 and table 2);
- plain pivot pins (locking plate type) (see figures 3 and 4 and tables 3 and 4).

These accessories are used on hydraulic cylinders for mechanically transmitting the cylinder force. The design of these accessories is based on the maximum forces resulting from the specified internal diameters of the cylinders and pressures according to ISO 3320 and ISO 3322.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 286-2:1988, *ISO system of limits and fits — Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts*.

ISO 3320:1987, *Fluid power systems and components — Cylinder bores and piston rod diameters — Metric series*.

ISO 3322:1985, *Fluid power systems and components — Cylinders - Nominal pressures*.

ISO 5598:1985, *Fluid power systems and components — Vocabulary*.

ISO 6020-3:1994, *Hydraulic fluid power — Mounting dimensions for single rod cylinders, 16 MPa (160 bar) series — Part 3: Compact series with bores from 250 mm to 500 mm*.

ISO 6982:1992, *Hydraulic fluid power — Cylinders — Rod end spherical eyes — Mounting dimensions*.

1) 1 bar = 0,1 MPa = 10⁵ Pa; 1 MPa = 1 N/mm²